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| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: (use as many sheets as necessary) | | | Complete if Known Application Number: 10/613,215 Filing Date: 07/07/2003 First Named Inventor: Francis PETERSON Group Art Unit: 3752 Examiner Name: Unassigned Attorney Docket Number: 065640-0208 | | |
| Sheet | 1 | of | 1 | | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|--------------------------|----------------------|---|--|--|--|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| JPL | B1 | 5,152,458 | | CURTIS | 10-06-1992 | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--------------------------|-------------------------|---------------------|--------------------------------------|---|--|--|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
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| Examiner Signature |  | Date Considered | 09/14/2005 |
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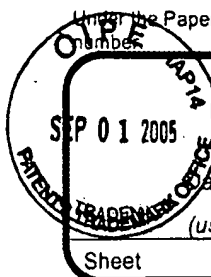
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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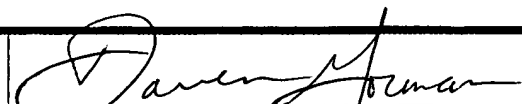
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|  | | Substitute for form 1449B/PTO | | Complete if Known | | |
| | | INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: September 1, 2005 (use as many sheets as necessary) | | Application Number: 10/613,215 Filing Date: 07/07/2003 First Named Inventor: Francis PETERSON Group Art Unit: 3752 Examiner Name: Gorman, Darren W. Attorney Docket Number: 065640-0208 | | |
| Sheet | 1 | of | 1 | | | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| JLG | A1 | 6,868,916 | B2 | Petersen | 03-22-2005 | |
| | A2 | 6,347,669 | B1 | Sundholm | 02-19-2002 | |
| | A3 | 6,209,654 | B1 | Curless | 04-03-2001 | |
| | A4 | 6,082,632 | A | Clark et al. | 07-04-2000 | |
| | A5 | 5,924,492 | A | Kikuchi et al. | 07-20-1999 | |
| | A6 | 5,839,667 | | Fischer | 11-24-1998 | |
| | A7 | 5,613,563 | A | Johnson | 03-25-1997 | |
| | A8 | 5,392,993 | | Fischer | 02-28-1995 | |
| | A9 | 5,109,929 | A | Spears | 05-05-1992 | |
| | A10 | 5,080,176 | A | Polan et al. | 01-14-1992 | |
| | A11 | 5,072,792 | | Simons et al. | 12-17-1991 | |
| | A12 | 4,905,766 | | Dietz et al. | 03-06-1990 | |
| | A13 | 4,739,934 | | Gewelber | 04-26-1988 | |
| | A14 | 4,625,915 | | Cockman | 12-02-1986 | |
| | A15 | 3,896,880 | | Asp | 07-29-1975 | |
| | A16 | 3,613,995 | | Kane | 10-19-1971 | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----------------------|-------------------------|---------------------|--------------------------------------|--|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| JLG | A17 | WO | 02/083245 | A1 | Petersen | 10-24-2002 | | |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
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| | | | Filing Date | 07/07/2003 |
| Date Submitted: 05/18/04 (use as many sheets as necessary) | | | First Named Inventor | Francis PETERSON MAY 18 2004 |
| | | | Group Art Unit | 3752 |
| Sheet 1 of 1 | | | Examiner Name | Unassigned |
| | | | Attorney Docket Number | 065640-0208 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| JLB | A1 | 4,139,062 | | RAGO | 02-13-1979 | |
| | A2 | 4,298,068 | | BRAY | 11-03-1981 | |
| | A3 | 4,437,611 | | GILROY | 03-20-1984 | |
| | A4 | 4,465,141 | | JOHNSON | 08-14-1984 | |
| | A5 | 4,938,292 | | JOHNSON | 07-03-1990 | |
| JLB | A6 | 5,425,921 | | COAKLEY ET AL. | 06-20-1995 | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----------------------|-------------------------|---------------------|--------------------------------------|--|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
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| | | | | Group Art Unit | 3752 |
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| | | | | Attorney Docket Number | 065640-0208 |
| Sheet | 1 | of | 1 | | |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| NON PATENT LITERATURE DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | T ⁶ |
| Jah ↓ Jah | A1 | J. Avery, "Injection Molding Alternatives", A Guide for Designers and Product Engineers, 1998, pages 113-117. | | | |
| | A2 | M. Tolinski, "Choosing a Multi-Material Molding Process", Molding Systems, Jan 1998 v56il p30(6). | | | |
| | A3 | "Multi-Shot Values", Plastics & Rubber Weekly, June 4, 1999, page 7. | | | |
| | A4 | J. Hahn, "Case Study for Multi-Shot", ANTEC '99, pages 406-410. | | | |
| | A5 | J. Tinson, "Multi-Shot Injection Molding", Medical Device Technology, April 1998, pages 26-28. | | | |

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|--------------------|---|-----------------|------------|
| Examiner Signature |  | Date Considered | 09/14/2005 |
|--------------------|---|-----------------|------------|

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